

ABSTRACT

5 A method and system makes inlining decisions that are efficient for
subprograms that have significantly varying execution times over a range of
variables or execution paths. A subprogram of a computer program is identified and
certain execution paths of the subprogram are selectively inlined. The subprogram
may be identified based on execution characteristics of the subprogram. The
selective inlining of the execution paths may be based on execution characteristics
of the paths. The paths may be selectively inlined based on an inline indication
10 associated with an execution path, where the inline indication may be an inline
directive. The inline directive may be included as part of a program comment
statement. A compiler makes determinations whether to inline a specific execution
path of a subprogram by evaluating certain information supplied in conjunction with
the path. By supplying information in association with the subprogram path, the
15 compiler may more easily determine the various execution characteristics of the
execution paths and may inline or not based on the execution characteristic
indication associated with the subprogram execution path.